## WHAT IS CLAIMED IS:

1	1. A system for generating a representation of time-based media, the system
2	comprising:
3	a feature extraction module for extracting features from media content; and
4	a formatting module for formatting a media representation generated by the
5	system, the formatting module being communicatively coupled to the
6	feature extraction module to apply feature extraction information to the
7	representation, wherein the formatting module formats the representation
8	according to a representation specification.
1	2. The system of claim 1, wherein the feature extraction module further
2	comprises content recognition software for recognizing features in media content.
1	3. The system of claim 1, further comprising processing logic for controlling an
2	augmented output device driver interface.
!	4. The system of claim 1, further comprising processing logic for controlling an
2	augmented output device console.
l	5. The system of claim 1, wherein the media representation is generated in digital
4	format.

I	6. The system of claim 1, wherein the media representation is generated in paper
2	format.
1	7. The system of claim 1, wherein the media representation includes at least one
2	user-selectable identifier allowing a user to access media content.
1	8. The system of claim 7, wherein the at least one user-selectable identifier
2	comprises at least one barcode printed on the media representation.
1	9. The system of claim 7, wherein the at least one user-selectable identifier can
2	be selected to play associated media content.
1	10. The system of claim 8, wherein the at least one barcode can be selected on
2	the media representation by scanning the barcode to play the associated media content on
3	a display device.
1	11. The system of claim 1, wherein the media representation includes a graphical
2	representation of media content along a timeline.
1	12. The system of claim 11, wherein the graphical representation of audio content
2	is displayed in audio waveform timeline.
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- 1 13. The system of claim 11, wherein the timeline includes markers along its
  2 length that correspond to user-selected segments of media content.
- 1 14. The system of claim 11, wherein the timeline includes markers along its
- 2 length that correspond to segments of audio content, the segments being defined by a
- 3 search for particular features within the media content.
- 1 15. The system of claim 11, wherein the timeline includes markers along its
- 2 length that correspond to segments of media content, at least one of the markers having
- 3 text information describing the segment of media content.
- 1 16. The system of claim 11, wherein the timeline includes markers along its
- 2 length that correspond to segments of media content, at least one of the markers having
- 3 timestamp information describing the segment of media content.
- 1 17. The system of claim 1, wherein the media representation includes a header
- 2 describing the media content.
- 1 18. The system of claim 1, wherein the media representation is generated
- 2 according to format specifications included in a data structure.

- 1 19. The system of claim 18, wherein the format specifications included in the
- 2 data structure comprise a number of user-definable fields specifying the format of a
- 3 graphical representation printed on the media representation.
- 1 20. The system of claim 18, wherein the format specifications included in the
- data structure comprise a number of user-definable fields specifying the layout of the
- 3 media representation.
- 1 21. The system of claim 18, wherein the format specifications included in the
- 2 data structure comprise a number of user-definable fields specifying the media content
- 3 markers included in the media representation.
- 1 22. The system of claim 20, wherein the format specifications included in the
- 2 data structure comprise a number of user-definable fields specifying the feature
- 3 extraction applied to the media content.
- 1 23. The system of claim 1, further comprising an augmented output device for
- 2 generating a media representation, the augmented output device being communicatively
- 3 coupled to the formatting module to receive instructions for generation of a media
- 4 representation.
- 1 24. The system of claim 23, wherein the augmented output device includes a
- 2 printer for printing media representations on paper.

1 25. A method for generating a representation of time-based media, the method 2 comprising: 3 extracting features from media content; and 4 formatting the representation according to a representation specification, the 5 formatting including applying feature extraction information. 1 26. The method of claim 25, further comprising generating a representation of 2 media content. 1 27. The method of claim 25, wherein extracting features of media content further 2 comprises performing keyword searching on the media data. 1 28. The method of claim 25, wherein extracting features of media content further 2 comprises performing speech recognition on the media data. 1 29. The method of claim 25, wherein extracting features of media content further 2 comprises performing event detection on the media data. 1 30. The method of claim 26, wherein generating a representation further 2 comprises generating a graphical representation of media content along a timeline. 1 31. The method of claim 30, wherein generating a graphical representation 2 further comprises generating an audio content waveform along a timeline.

- 32. The method of claim 26, wherein generating a representation further
  comprises generating at least one user-selectable identifier in the media representation
- 3 that allows a user to access media content.
- 33. The method of claim 32, wherein generating at least one user-selectable
   identifier comprises generating at least one barcode printed on the media representation.
- 34. The method of claim 33, further comprising selecting the at least one userselectable identifier on the media representation by scanning the barcode to play the associated media content on a display device.
- 35. The method of claim 30, wherein generating a graphical representation along
   a timeline further comprises generating markers along a timeline, the markers
   corresponding to user-selected media content.
- 36. The method of claim 30, wherein generating a graphical representation along a timeline further comprises generating markers along a timeline, at least one of the markers corresponding to features extracted from the media content.
- 37. The method of claim 30, wherein generating a graphical representation along a timeline further comprises generating markers along a timeline, at least one of the markers including text information describing the media content.

- 1 38. The method of claim 30, wherein generating a graphical representation along 2 a timeline further comprises generating markers along a timeline, at least one of the 3 markers including timestamp information describing the media content. 1 39. The method of claim 26, wherein generating a representation further 2 comprises generating a header describing the media content 1 40. The method of claim 26, wherein generating a representation further 2 comprises generating a representation in digital format. 1 41. The method of claim 26, wherein generating a representation further 2 comprises printing a representation in paper format. 1 42. The method of claim 25, wherein formatting the representation according to a 2 representation specification further comprises defining the format of a media 3 representation using a data structure with format specifications. 1 43. The method of claim 25, further comprising inputting audio content and a 2 representation specification into the system.
- 44. The method of claim 33, wherein generating at least one barcode further
   comprises applying a barcode generation algorithm to render a barcode image including
   identifier information.

- 1 45. The method of claim 33, wherein generating at least one barcode further
- 2 comprises applying a barcode generation algorithm to render a barcode image including
- 3 timestamp information.